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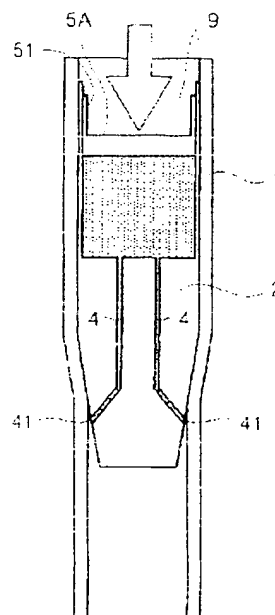
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(54) 【発明の名称】 拡張管の拡張方法および拡張工具

55 (1972)

【解説】「新設備」は、労働環境の改善の被管工具として、従来の被管工具に比べて、省力を効果的に実現することからなる被管工具に、従って、従来より、従来以上に、従来以上の金属管、鋼管、鋼管に、従って、従来以上の被管工具を提供する。

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EPODOC / SPO

PN - JP2001047161 A 20010220
 PD - 2001-02-20
 PR - JP19990228876 19990812
 OPD- 1999-08-12
 TI - TUBE EXPANDING METHOD OF METAL TUBE AND TUBE EXPANDING TOOL
 IN - INAGAKI SHIGEYUKI;KITO KAZUNARI;HIYAMIZU TAKAO;HORIO KOJI;YAMADA RYUZO
 PA - DAIDO STEEL CO LTD
 EC - E21B43/10F ; E21B43/10F1
 IC - B21D39/20

C WPI / DERWENT

TI - Metallic tube expansion method for oil wells, involves supplying lubricant through tube before expansion by expanding tool
 PR - JP19990228876 19990812
 PN - JP2001047161 A 20010220 DW200126 B21D39/20 004pp
 PA - (DAIZ) DAIDO TOKUSHUKO KK
 IC - B21D39/20
 AB - JP2001047161 NOVELTY - The method involves supplying the lubricant through the metallic tube (1), before expansion by the expansion tool (2).
 - DETAILED DESCRIPTION - The common ball type expansion tool (2) is inserted into the metallic tube (1). The internal diameter of the tube is expanded by the pressure of hydrolyic fluid from the rear side of the tool. An INDEPENDENT CLAIM is also included for tube widening tool.
 - USE - For casing tube, telescopic tube, coiled tubes in oil well, gas well, refinery.
 - ADVANTAGE - The expansion work is executed smoothly and continuously.
 - DESCRIPTION OF DRAWING(S) - The figure shows the sectional elevation of tube expansion tool.
 - Metallic tube 1
 - Expansion tool 2
 - (Dwg. 2/5)
 OPD- 1999-08-12
 AN - 2001-252189 [26]

EPAJLPC

PN - JP2001047161 A 20010220
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 IN - HIYAMIZU TAKAO;HORIO KOJI;KITO KAZUNARI;INAGAKI SHIGEYUKI;YAMADA RYUZO
 PA - DAIDO STEEL CO LTD
 TI - TUBE EXPANDING METHOD OF METAL TUBE AND TUBE EXPANDING TOOL
 AB - PROBLEM TO BE SOLVED: To expand a metal tube having a length of several-hundred meters or more in a tube expanding technology by which a bullet shaped tube expanding tool is inserted into the inside of the metal tube, a fluid pressure is applied from rear side and an inner diameter of the tube is expanded by advancing the tool.
 - SOLUTION: A tube expanding tool, which has a lubricant tank at a rear part, is arranged with a lubricant conduit tube 4 extending from a bottom of the lubricant tank and opening to a tapered face at the front part and is arranged with a pressure transfer means to receive/transfer a fluid pressure to the lubricant in the lubricant tank, is used, the tube expanding tool is advanced while continuously and uniformly supplying the lubricant to a tube inner wall part immediately before tube expanding.
 I - B21D39/20

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